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PATENT

Attorney Docket No. 8401 02 RW Ref. No. APM/001-02-CP2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kenneth COLLINS, et al.

Entitled: PLASMA IMMERSION ION
IMPLANTATION PROCESS USING A
PLASMA SOURCE HAVING LOW DISSOCIATION
AND LOW MINIMUM PLASMA VOLTAGE

Serial No.: 10/646,533

Filing Date: August 22, 2003

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97 (b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that these documents be made of record and an initialed copy of each form be returned to the undersigned.

No representation is made that more pertinent material is not available or should not be considered by the Examiner. It is expected that the Patent and Trademark Office will independently conduct a complete search of appropriate art. Furthermore, no admission is being made that these documents are prior art, and applicant reserves the right to challenge any such consideration.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures, section 609 and 707.05. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each document is enclosed unless indicated otherwise. Some of the documents may have markings on them. No significance is meant to be attached to the markings. These documents are not necessarily analogous art.

Respectfully submitted,

Dated: 04-18-2003

Robert M. Wallace Registration No. 29,119 Attorney for Applicants

Cepus Mu aclan

Robert M. Wallace Patent Counsel 2112 Eastman Avenue, Suite 102 Ventura, CA 93003 (805) 644-4035

10/646,533 Application Number: INFORMATION Filing Date: August 22, 2003 DISCLOSURE Kenneth COLLINS, et al. STATEMENT BY APPLICANT First Named Inventor: Unknown Group Art Unit: Examiner Name: Unknown Sheet 1 of 6 Attorney Docket Number: 008401 02 U. S. PATENT DOCUMENTS Document No. **Publication Date** Name of Patentee or Class Subclass Filing Date Examiner Initials Applicant of Cited **Document** 05-20-1940 US-2,344,138 03-14-1944 DRUMMOND 117 107 219 **GECEWICZ** 250 05-19-1960 US-3,109,100 10-29-1963 US-3,576,685 04-27-1971 SWANN ET AL. 148 187 03-15-1968 WIEMER 148 188 08-16-1974 US-3,907,616 09-23-1975 192 US-4,116,791 09-26-1978 **ZEGA** 204 05-18-1977 05-03-1983 LEGGE ET AL. 427 34 10-26-1981 US-4,382,099 US-4,385,946 05-31-1983 FINEGAN ET AL. 148 175 06-19-1981 204 164 05-03-1982 US-4,434,036 02-28-1984 HOERSCHELMANN ET AL. US-4,465,529 08-14-1984 ARIMA ET AL. 148 188 06-04-1982 FOREIGN PATENT DOCUMENTS **Publication Date** Name of Patentee or Applicant of Cited Examiner Foreign Patent Country Translation? (Yes/No/n/a) Document **Document** Initials EP 0 546 852 A1 16.06.1993 **EUROPE** CHARLES ZAROWIN ET AL. N/A SERGIO EDELSTEIN ET AL. N/A EP 0 836 218 A2 15.04.1998 **EUROPE** EP 0 964 074 A2 15.12.1999 **EUROPE** ALEC DENHOLM ET AL. N/A EP 1 111 084 A1 27.06.2001 **EUROPE** JAMES BERNSTEIN ET AL. N/A EP 1 191 121 A1 **EUROPE** MICHELANGELO DELFINO N/A 27.03.2002 NON PATENT LITERATURE DOCUMENTS Examiner Initials Zhang, B.C., and Cross, R.C., "A high power radio frequency transformer for plasma production," Rev. Sci. Instrum., Vol. 69, No. 1, pp. 101-108, January 1998. U.S. Patent Application Serial No.: 09/638,075, filed August 11, 2000, entitled, "EXTERNALLY EXCITED TORROIDAL PLASMA SOURCE," By Hiroji Hanawa, et al.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered:

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**INFORMATION** DISCLOSURE

STATEMENT BY APPLICANT

Sheet 2 of 6

Application Number:

First Named Inventor:

Filing Date:

**Group Art Unit: Examiner Name:** 

Attorney Docket Number: 008401 02

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August 22, 2003
Kenneth COLLINS, et al. SEP 2 2 2003

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<u></u>	WO 93/18201	16.09.2003	WIPO	FELCH ET AL.	N/A

Examiner NON PATENT LITERATURE DOCUMENTS Initials

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 3 of 6

Application Number: Filing Date:

First Named Inventor:

10/646,533

August 22, 2003

Kenneth COLLINS, et al.

Group Art Unit: Examiner Name: Unknown Unknown

Attorney Docket Number: 008401 02

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	WO 02/25694 A2	28.03.2002	WIPO	JAMES BERNSTEIN ET AL.	N/A

Examiner NON PATENT LITERATURE DOCUMENTS Initials

Examiner's Signature:

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INFORMATION **Application Number:** 10/646,533 DISCLOSURE Filing Date: August 22, 2003 Kenneth COLLINS, et al. Unknown STATEMENT BY APPLICANT First Named Inventor: **Group Art Unit:** Unknown **Examiner Name:** Unknown Sheet 4 of 6 Attorney Docket Number: 008401 02 U. S. PATENT DOCUMENTS Name of Patentee or Applicant Subclass **Publication Date** Class Filing Date **Document No** Examiner Initials of Cited Document 156 345 06-16-1994 US-5,587,038 12-24-1996 CECCHI ET AL. 111.21 02-15-1996 US-5,627,435 05-06-1997 JANSEN ET AL. 315 HOOKE ET AL. 111.21 06-28-1994 US-5,648,701 06-15-1997 315 427 527 10-10-1996 US-5,654,043 08-05-1997 SHAO ET AL. 723 US-5,674,321 10-07-1997 PU ET AL. 118 04-28-1995 11-04-1997 SHAN 118 723 06-07-1995 US-5,683,517 CHAPEK ET AL. 118 723 06-06-1995 01-27-1998 US-5,711,812 429 04-10-1996 US-5,718,798 02-17-1998 **DEREGIBUS** 156 32 10-29-1996 06-23-1998 MOORE 333 US-5,770,982 192.12 US-5,897,752 04-27-1999 HONG ET AL. 204 05-20-1997 US-5,911,832 06-15-1999 DENHOLM ET AL. 118 723 01-09-1997 600 504 US-5,935,077 08-10-1999 **OGLE** 08-14-1997 **OGLE** 156 345 03-04-1998 US-5,944,942 08-31-1999 US-5,948,168 09-07-1999 SHAN ET AL. 118 723 10-09-1997 **OGLE** 438 728 01-23-1998 11-30-1999 US-5,994,236 FOREIGN PATENT DOCUMENTS **Publication Date** Name of Patentee or Applicant of Cited Translation? Examiner Foreign Patent Country Document (Yes/No/n/a) Initials Document Examiner NON PATENT LITERATURE DOCUMENTS Initials

Examiner's Signature:

Date Considered:

Application Number: 10/646,533 INFORMATION August 22, 2003 Filing Date: DISCLOSURE SEP 2 2 2003 Kenneth COLLINS, et al. STATEMENT BY APPLICANT First Named Inventor: Unknown Group Art Unit: Unknown **Examiner Name:** Sheet 5 of 6 Attorney Docket Number: 008401 02 U. S. PATENT DOCUMENTS **Publication Date** Class Subclass Filing Date **Document No** Name of Patentee or Applicant Examiner of Cited Document Initials 11-30-1999 **OGLE** 438 728 01-23-1998 US-5,994,236 SHUN'KO 315 11.51 04-06-1998 12-07-1999 US-5,998,933 492.21 02-01-2000 LIEBERT ET AL. 250 08-03-1998 US-6,020,592 US-6,041,735 03-28-2000 MURZIN ET AL. 118 723 03-02-1998 04-18-2000 CHEN ET AL. 118 723 09-28-1998 US-6,050,218 723 US-6,076,483 06-20-2000 SHINTANI ET AL. 118 03-26-1998 723 US-6,101,971 08-15-2000 DENHOLM ET AL. 118 12-22-1998 10-17-2000 DONOHOE ET AL. 156 345 02-19-1998 US-6,132,552 US-6,150,628 11-21-2000 SMITH ET AL. 219 121.54 06-26-1997 US-6,164,241 12-26-2000 CHEN ET AL. 118 723 06-30-1998 67 01-05-1998 12-26-2000 MIYAKE ET AL. 216 US-6,165,376 US-6,182,604 B1 02-06-2001 GOECKNER ET AL. 118 723 10-27-1999 05-29-2001 KELLERMAN ET AL. 118 723 08-06-1999 US-6,237,527 B1 05-29-2001 BARNES ET AL. 315 111.51 04-22-1999 US-6,239,553 B1 JEWETT ET AL. US-6,291,938 B1 09-18-2001 315 111.51 01-24-2000 FOREIGN PATENT DOCUMENTS Examiner **Publication Date** Name of Patentee or Applicant of Cited Translation? Foreign Patent Country Document Document (Yes/No/n/a) Initials Examiner NON PATENT LITERATURE DOCUMENTS Initials

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**INFORMATION** DISCLOSURE

STATEMENT BY APPLICANT

Sheet 6 of 6

Application Number:

Filing Date:

First Named Inventor:

Group Art Unit: Examiner Name: 10/646,533

August 22, 2003

Kenneth COLLINS, et al. Unknown

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Total Number of Pages in Thi	s Submission 9	Attorney Docket Numb	per 8401 02
	ENCL	OSURES (chec	k all that apply)
Fee Transmittal Form  Fee Attached  Amendment / Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Response to Missing Parts/ Incomplete Application  Response to Missing Parts under 37 CFR 1.52 or 1.53	Drawing Licensii Petition Provisio Power of Change Addres Termina Reques	to Convert to a onal Application of Attorney, Revocation of Of Correspondence	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below):
Sid	SNATURE OF APPL	CANT, ATTORNEY, O	R AGENT
Firm Robert Nor Individual name	1. Wallace Re	g. No. 29,119	
Signature NO.	per mula	llar	
Date		09/18/2003	
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